

ALABAMA'S PREPAID AFFORDABLE COLLEGE TUITION PROGRAM

ANNUAL ACTUARIAL VALUATION SEPTEMBER 30, 2007

Prepared by Robert B. Crompton, FSA, MAAA Actuarial Resources Corporation of GA



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January 31, 2008

Board of Trustees Alabama's Prepaid Affordable College Tuition Trust Fund State Treasurer's Office 600 Dexter Avenue, Suite S-106 Montgomery, Alabama 36104

Ladies and Gentlemen:

We have completed our actuarial analysis of Alabama's Prepaid Affordable College Tuition Trust Fund ("the Fund") as of September 30, 2007. This report presents our findings with respect to the Fund's expected cash flows and the status of the Fund.

This analysis of the funding of the Fund was prepared for the Board in accordance with generally accepted actuarial principles and practices commonly applicable to similar types of arrangements.

The purpose of our actuarial analysis is to provide a long-term view of the Fund's assets and liabilities. Because the Fund undertakes liabilities that in some cases will not be paid out until over 20 years in the future, such a long-term analysis is critical to the proper management of the Fund.

As of September 30, 2007, the expected value of all liabilities is \$971,599,170 and the market value of assets is \$951,857,490, resulting in an actuarial deficit of \$19,741,680. Liabilities are 97.6% funded.

We caution you in interpreting these results to keep in mind that this deficit is an actuarial deficit. Our projections are based on a number of uncertain assumptions, including the future course of tuition increases in Alabama and returns on the Fund's assets. Actual events may vary significantly from our projections – either better or worse than our projections. These variances may result in material changes to future actuarial analyses.

The actuarial status will change from year to year due to positive and negative cash flows and due to the change in the present value of future contract usage caused by the passage of time. The actuarial status will also change due to the variance of experience from the assumptions. These variances include tuition increases, investment income, and timing of benefit payments.

A more complete understanding of this "point-in-time" approach can be gained by reviewing prior years' actuarial reports and analyzing how the surplus and deficit amounts have changed over time. In addition, this report should be read in its entirety so that our projections can be properly interpreted.

* * * * *

We appreciate the opportunity to serve the State of Alabama. Any questions about the report should be directed to me at (770) 752-5656.

Very truly yours,

Robert B. Crompton, FSA, MAAA

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I. EXECUTIVE SUMMARY

The following are the key findings of our analysis.

Status of the Fund

As of September 30, 2007, the Fund's liabilities exceed its assets by \$19,741,680.

| Item | Value as of September 30, 2007 |
|-------------------|-----------------------------------|
| Total Assets | \$951,857,490 |
| Total Liabilities | \$971,599,170 |
| Actuarial Deficit | (\$19,741,680) |
| Funding Ratio | 97.6% |

Key economic assumptions are listed below.

| Key Assumptions | |
|--|----------------|
| Yield on Investments | |
| 2007/08 – 2011/12 (5 years) 2012/13 & later | 8.07% 8.50% |
| Tuition Inflation | |
| 2-Year colleges | 7.25% |
| 4-Year colleges & universities | 7.25% |

The assumption for investment returns is composed of two pieces. The assumption for the first five years was based on the recommendation of the Fund's investment consultant, Callan Associates, Inc. The assumption for later years was based on historical norms for the target asset mix combined with the Fund's actual historical returns.

The tuition inflation assumptions are based on a combination of statistical models of tuition increases and on actuarial judgment. Our statistical models also use information from the past 25 years. The rates shown in the table above represent our long-term average estimate of tuition inflation

Please see the *Actuarial Methods and Assumptions* section on page 6 for a more detailed discussion of these items.

A summary balance sheet as of September 30, 2007 is shown in the table below.

| Value as of September 30, 2007 | | Assets and Liabilities |
|--|--------------------|---------------------------|
| Assets | | |
| Short term assets | | \$ 38,535,954 |
| Fixed Income Securities | | |
| Domestic | 146,624,348 | |
| International | 18,654,973 | |
| Derivatives | 34,989,546 | |
| Total Fixed Income | | 200,268,867 |
| Equities | | |
| Domestic | 405,215,434 | |
| International | <u>179,198,821</u> | |
| Total Equities | | 584,414,255 |
| Securities Lending Collateral | | 71,259,169 |
| Accrued Interest | | 2,382,986 |
| Recoverable Taxes | | 375,799 |
| Receivables | | 1,311,259 |
| Equipment | | <u> </u> |
| Total Short-term & Invested Assets | | 898,548,289 |
| Actuarial Value of Future Contract Revenue | | |
| Gross | 54,334,968 | |
| Less Administrative Fees | 1,025,767 | |
| Net Contract Revenues | | 53,309,201 |
| Total Assets | | <u>\$951,857,490</u> |
| Liabilities and Deficit | | |
| Actuarial Value of Future Benefits | | \$836,909,570 |
| Other Liabilities | | 134,689,600 |
| Total Liabilities | | 971,599,170 |
| Actuarial Deficit | | <u>(19,741,680)</u> |
| Total Liabilities and Deficit | | <u>\$951,857,490</u> |
| Net Assets Available for Benefits | | \$763,858,689 |
| Funded Ratio | | 97.6% |
| Funded ratio = (net assets available + | | |
| net contract revenues) ÷ actuarial | | |
| Liabilities | | |

II. RELIANCES & COMPLIANCE WITH ACTUARIAL STANDARDS OF PRACTICE

In making the projections on which this report is based, we relied on the following information as indicated below.

- Weighted Average Tuition at Alabama colleges and universities, including headcounts as of September 30, 2006, supplied by the Alabama Commission on Higher Education.
- Market value of assets of the Trust Fund, supplied by PACT personnel.
- Actual inventory of contracts by category, enrollment period, payment method and anticipated matriculation year, supplied by the PACT records administrator, HealthData, Inc.
- Information regarding likely future investment returns on the Trust Fund, supplied by the Fund's investment consultant, Callan Associates, Inc.
- Assumptions regarding the Fund's anticipated asset allocation are derived from the Fund's Investment Policy Statement.

There are no actuarial standards of practice that apply specifically to prepaid tuition plans. However, there are two general standards that we believe apply:

- Actuarial Standard of Practice #23 "Data Quality". This standard sets guidelines
 on review of data supplied by a third-party. We have performed reasonableness
 and consistency checks on the data supplied to us by the records administrator,
 and are in compliance with this standard. Our review of the data was not an
 audit of the data.
- Actuarial Standard of Practice #41 "Actuarial Communications". This standard sets general guidelines for actuarial communications. This report is in compliance with this standard.

III. SUMMARY OF PARTICIPANT DATA AND INVESTED ASSETS

Contract Data

Data on the number of outstanding contracts and payments was provided by the Fund's records administrator, HealthData, Inc. The tables below summarize the data provided concerning this.

| Distribution of Active Contracts by Projected First Year in College | | | |
|---|-----------|-----------------------|-----------|
| Projected Year | Number of | Projected Year | Number of |
| of College Enrollment | Contracts | of Ćollege Enrollment | Contracts |
| Prior to 2000 | 944 | 2013 | 2,583 |
| 2000 | 710 | 2014 | 2,262 |
| 2001 | 963 | 2015 | 2,118 |
| 2002 | 1,221 | 2016 | 1,901 |
| 2003 | 1,985 | 2017 | 1,742 |
| 2004 | 2,620 | 2018 | 1,609 |
| 2005 | 2,986 | 2019 | 1,441 |
| 2006 | 3,138 | 2020 | 1,133 |
| 2007 | 3,182 | 2021 | 940 |
| 2008 | 3,178 | 2022 | 586 |
| 2009 | 3,215 | 2023 | 419 |
| 2010 | 3,071 | 2024 | 308 |
| 2011 | 2,900 | 2025 | 60 |
| 2012 | 2,808 | | |
| Total Contracts | | | 50,023 |

| Distribution of Contracts by Year of Purchase | | | |
|---|-----------|----------|-----------|
| Year of | Number of | Year of | Number of |
| Purchase | Contracts | Purchase | Contracts |
| 1990 | 14,582 | 1999 | 2,531 |
| 1991 | 7,084 | 2000 | 2,979 |
| 1992 | 6,485 | 2001 | 3,792 |
| 1993 | 5,228 | 2002 | 3,730 |
| 1994 | 4,807 | 2003 | 2,258 |
| 1995 | 4,772 | 2004 | 1,605 |
| 1998 | 4,332 | 2005 | 1,192 |
| 1997 | 3,597 | 2006 | 1,277 |
| 1998 | 3,419 | | |
| Total Contracts | | | 73,670 |

Assets

Fund Assets

The total market value of assets held (exclusive of contract receivables) as of September 30, 2007 is \$899,031,838. The allocation of these assets is shown in the table below.

| Market value of assets held as of September 30, 2007 | | |
|--|----------------------|---------------|
| | <u>Amount</u> | % Of Total |
| Short-term Assets | \$38,535,954 | 4.3% |
| Fixed Income | 200,268,867 | 22.3% |
| Equities | 584,414,255 | 65.0% |
| All Other Assets Held in Funds | <u>75,329,213</u> | 8.4% |
| TOTAL | <u>\$898,548,289</u> | <u>100.0%</u> |

Investment Strategy

The Fund's Investment Policy states, "A strategic asset allocation has been established based on the principle that individual asset classes can be combined to optimize the objectives of the Fund. The goal of this strategic asset allocation is a Fund that is efficient, well diversified, and manageable over the long term. The benefits of this diversification are reduced risk and improved investment return." The Fund's asset allocation has a target allocation by asset category as follows:

| • | U.S. Stocks | 51% |
|---|-----------------|-----|
| • | Non-U.S. Stocks | 21% |
| • | Fixed Income | 28% |

IV. ACTUARIAL METHODS AND ASSUMPTIONS

Methods

The actuarial method for the determination of the status of the Fund consists of projecting future tuition rates and future utilization of these contracts. The value of future benefits and revenues are determined using the time value of money.

For the projection of future benefits, the analysis proceeds as follows:

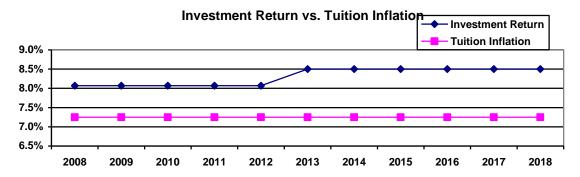
- Project future tuition rates for all years under consideration. Future tuition is based on the assumptions for tuition inflation.
- Determine the nominal cost of future use of contract benefits based on the assumptions regarding utilization of contracts and the length of time the average beneficiary will take to complete his college education.
- Determine the present value of future contract usage based on the investment yield assumptions.
- Perform projections for all of the Fund's beneficiaries to determine the status of the Fund.

Assumptions

Actuarial assumptions used to determine financial status of the Fund are of two general types: economic and demographic. Demographic assumptions determine the expected exposure to financial claims and generally answer the question "How and when will people use their contract?" Economic assumptions are concerned with the expected level of contract usage and answer the question "What is the expected value of contract usage?" The assumptions that we used were those that were approved by the PACT Board in consultation with Actuarial Resources Corporation.

Economic Assumptions

Economic assumptions are used to estimate the annual tuition rates at two and fouryear colleges and Fund earnings on assets invested. The single most important indicator of the financial viability of the Fund is the relationship between projected investment returns and the projected tuition increases. The chart below shows the relationship over time of the investment return rates versus the tuition rates.



The following paragraphs describe the economic assumptions used in this study.

Annual Tuition Rates

Our assumptions for tuition were guided by our observations of historic increases, trends in appropriations for higher education and by statistical modeling. Our assumptions are shown below.

| Tuition Inflation | |
|--------------------------------|-------|
| 2-Year colleges | 7.25% |
| 4-Year colleges & universities | 7.25% |

We note that for 2-Year Colleges, tuition and fees are set by the Alabama State Board of Education, acting as the trustee for Alabama's 2-year colleges. For 4-Year Colleges & Universities, tuition and fees are determined independently by each institution's Board of Trustees.

Tuition Bias Toward Higher Cost Institutions

The Weighted Average Tuition ("WAT") is used to determine projected tuition payouts. Because purchasers have the opportunity to use the benefits at a school with tuition higher than the WAT, we have included an adjustment factor in our projections to account for this.

| Bias Toward Higher Cost Institutions Factors | | |
|--|-------|--|
| Four-year universities | 11.0% | |
| Two-year colleges | 3.0% | |

Fund Earnings Rate

Our assumption for investment returns is based on information supplied to us by the Fund's investment consultant, Callan Associates, Inc. Callan has informed us that their best estimate of likely returns over the next five years is 8.07%. Beyond five years, the assumption is based on historical norms and the Fund's historical results.

| Investment Returns | | |
|--------------------|-----------|-------|
| 2007/08 - 2011/12 | (5 years) | 8.07% |
| 2012/13 & later | | 8.50% |

These returns are net after investment expenses.

Annual Expenses

As in prior years, we assume that all of the Fund's expenses are paid from the administrative fees assessed on contracts. Beginning in 2006, investment income is transferred to the Administrative Account for current liquidity needs including tuition benefits and expenses.

Demographic Assumptions

The demographic assumptions used in this report are based on our experience with similar types of liabilities. Our choice of assumptions is based on recent experience, historical data of the Fund and our best estimates as to future events. These assumptions are as follows:

Contract Terminations Due To Mortality and Disability

We assumed no contract terminations due to death or disability.

Other Contract Cancellations

We assumed that contracts would cancel according to the table below.

| Contract Cancellation Table | | | |
|-----------------------------|----------|-----------------|-------------------------|
| | | 60 Monthly | Extended Monthly |
| Type of Payment=> | Lump Sum | Payments | Payments |
| Year of purchase | 0.50% | 5.00% | 6.00% |
| Year of purchase+1 | 0.50% | 2.00% | 5.00% |
| Year of purchase+2 | 0.50% | 1.00% | 4.00% |
| Year of purchase+3 | 0.50% | 1.00% | 4.00% |
| Year of purchase+4 | 0.50% | 1.00% | 3.00% |
| Thereafter | 0.50% | 1.00% | 2.00% |

Utilization of Benefits

We assume that beneficiaries will enroll in college at the date indicated as their anticipated college entrance date.

We assume that the average beneficiary will use 128 credit hours and 8 semester fee payments according to the following table. This assumption is based on the Fund's experience to date for beneficiaries who have completed their contract usage either through graduation, depletion or expiration.

| Timing | Credit Hours | Fee Usage |
|--------|--------------|-------------|
| Year 1 | 30 | 2 semesters |
| Year 2 | 30 | 2 semesters |
| Year 3 | 30 | 2 semesters |
| Year 4 | 30 | 2 semesters |
| Year 5 | 8 | Nil |

For contracts that are past the projected completion date, we assumed that their remaining benefits would be paid according to the schedule above beginning in the current academic year. For contracts that are past their anticipated entrance date, but not yet past their projected completion date, we assumed that their remaining benefits would be paid over the remaining period until their projected completion date.

Within an academic year, contract usage is assumed to be 45% for the fall semester, 45% for the spring semester and 10% for the summer semester. Payment dates are assumed to be November 1 for fall semester, March 1 for spring semester and August 1 for summer semester.

Two-Year College Participation

We assumed that during the course of benefit usage, 10% of beneficiaries would attend two-year colleges. Projected benefit payments reflect the mix of two-year and four-year tuition costs.

V. CHANGES IN ACTUARIAL ASSUMPTIONS FOR 2007

We made three changes to the assumptions used in projecting the status of the Fund. These changes are conservative when considered in aggregate. That is, they cause the actuarial deficit to be larger than it would have been without these changes. These changes are discussed below. These assumption changes that we made were those that were approved by the PACT Board in consultation with Actuarial Resources Corporation.

Changes in Investment Returns

We updated the assumption for investment returns based on the recommendation of the Fund's asset consultant. Current and prior assumptions are shown below.

| Current Assumption | Prior Assumption |
|-----------------------|-----------------------|
| 8.07% through 2011/12 | 7.92% through 2010/11 |
| 8.50% thereafter | 8.50% thereafter |

Change in Bias To Higher-Cost Institutions

We revised the assumptions to better reflect actual experience of the Fund.

| Current Assumption | Prior Assumption |
|---------------------------|-------------------------|
| 11.0% for 4-year schools | 8.0% for 4-year schools |
| 3.0% for 2-year schools | 3.0% for 2-year schools |

Change to 2-Year College Participation

We revised the assumptions to better reflect actual experience of the Fund.

| Current Assumption | Prior Assumption |
|--------------------|------------------|
| 10% in Year 1 | 17.5% in Year 1 |
| 10% in Year 2 | 17.5% in Year 2 |
| 10% in Year 3 | 0% in Year 3 |
| 10% in Year 4 | 0% in Year 4 |
| 10% in Year 5 | 0% in Year 5 |

Dollar Effect of Change in Assumptions

The effect of these changes is as follows:

| •Investment returns: | \$ 1,676,925 increase to deficit | | | |
|---|----------------------------------|--|--|--|
| Bias to Higher-Cost Institutions: | \$20,672,644 increase to deficit | | | |
| •Change in 2-Year College Participation | \$10,708,543 decrease to deficit | | | |
| | | | | |
| Aggregate change: | \$11,641,026 increase to deficit | | | |

If assumptions had been the same as last year, the Program's deficit would have been: (\$8,100,654)

VI. STATUS OF THE FUND AS OF SEPTEMBER 30, 2007

In determining the status of the Fund, we estimated the future disbursements for higher education expenses of beneficiaries and refunds for terminated contracts. We also projected the future assets based on current assets and expected earnings on assets. We believe these estimates are reasonable based on the information available and our past experience and judgment.

The estimates of the prospective assets and liabilities of the Fund are summarized in the table on the following page and demonstrate the financial position of the Fund. The value of all assets including future contract payments is \$951,857,490 while the expected value of all liabilities is \$971,599,170. The resulting actuarial deficit is \$19,741,680.

The actuarial status will change from year to year due to positive and negative cash flows and due to the change in the present value of future contract usage and expense payments because of the passage of time. The actuarial status will also change due to the variance of experience from the assumptions. These variances include tuition increases, investment income, and expenses.

Finally, the status will also change due to the growth of the program and due to updates to assumptions reflecting the Fund's emerging experience. The changes for the year ending September 30, 2007 are summarized in the table below.

| Annual Change of Status | |
|--|----------------|
| Status at September 30, 2006 | (\$60,536,012) |
| Projected Change to September 30, 2007 | (4,794,452) |
| Effect of New Contracts | 5,181,235 |
| Gain from Favorable Tuition Inflation | 7,493,680 |
| Gain due to Favorable Investment Experience | 46,111,959 |
| Change in Assumptions | (11,641,026) |
| Other | (1,557,064) |
| Actuarial deficit at September 30, 2007 ¹ | (\$19,741,680) |

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¹ Based on assumptions described above. Assumptions will change over time as experience becomes more credible.

The table below presents the Fund's projected assets, projected cash flows, projected investment income and projected funded status. These projections are as-of September 30, 2007, and are based on the contracts in place at that time. The effects of future contract sales are not included.

| Fiscal | Payments | Payments | | End of Year | Assets Held | End | |
|---------|------------|-------------------|-------------|---------------|---------------|-------------|------------|
| Year | Into Trust | Out of | Investment | Assets | Plus Contract | Of Year | Funded |
| Ending | Fund | Trust Fund | Income | Held | Revenue | Liabilities | Ratio |
| 2007 | | | | 898,548,289 | 951,857,490 | 971,599,170 | 97.6% |
| 2008<1> | 18,850,607 | 209,219,375 | 58,957,143 | 767,136,663 | 804,958,526 | 826,293,359 | 97.4% |
| 2009 | 10,476,282 | 96,512,689 | 57,000,789 | 738,101,045 | 768,032,740 | 791,089,294 | 97.1% |
| 2010 | 8,279,997 | 86,352,522 | 55,115,767 | 715,144,287 | 738,841,774 | 763,758,992 | 96.7% |
| 2011 | 6,481,739 | 89,655,081 | 52,988,072 | 684,959,017 | 703,799,939 | 730,727,976 | 96.3% |
| 2012 | 4,877,513 | 92,807,151 | 50,308,940 | 647,338,319 | 662,598,208 | 691,699,338 | 95.8% |
| 2013 | 3,990,600 | 95,594,647 | 49,571,014 | 605,305,286 | 617,685,361 | 649,260,087 | 95.1% |
| 2014 | 3,409,172 | 96,426,986 | 45,909,615 | 558,197,087 | 568,060,828 | 602,319,407 | 94.3% |
| 2015 | 2,873,299 | 95,085,451 | 41,952,020 | 507,936,956 | 515,631,157 | 552,801,714 | 93.3% |
| 2016 | 2,378,557 | 93,455,167 | 37,747,843 | 454,608,188 | 460,465,733 | 500,795,788 | 91.9% |
| 2017 | 1,945,426 | 90,268,522 | 33,372,376 | 399,657,468 | 403,975,551 | 447,733,661 | 90.2% |
| 2018 | 1,564,793 | 86,585,136 | 28,896,575 | 343,533,700 | 346,579,953 | 394,057,502 | 88.0% |
| 2019 | 1,218,022 | 83,864,012 | 24,273,542 | 285,161,252 | 287,190,100 | 338,703,240 | 84.8% |
| 2020 | 918,997 | 80,711,183 | 19,477,172 | 224,846,238 | 226,084,609 | 281,976,367 | 80.2% |
| 2021 | 651,921 | 75,793,839 | 14,627,421 | 164,331,740 | 164,991,394 | 225,633,951 | 73.1% |
| 2022 | 401,876 | 69,654,206 | 9,828,788 | 104,908,198 | 105,201,970 | 170,999,144 | 61.5% |
| 2023 | 216,053 | 59,803,470 | 5,342,351 | 50,663,133 | 50,754,574 | 122,144,508 | 41.6% |
| 2024 | 83,477 | 48,388,008 | 1,393,350 | 3,751,952 | 3,762,800 | 81,220,878 | 4.6% |
| 2025 | 11,079 | 37,684,008 | (1,960,031) | (35,881,008) | (35,881,008) | 48,161,007 | - 74.5% |
| 2026 | - 0 - | 25,348,657 | (4,600,166) | (65,829,831) | (65,829,831) | 25,355,755 | - 259.6% |
| 2027 | - 0 - | 15,650,989 | (6,555,941) | (88,036,760) | (88,036,760) | 10,899,600 | - 807.7% |
| 2028 | - 0 - | 8,437,778 | (8,011,591) | (104,486,129) | (104,486,129) | 2,859,823 | -3,653.6% |
| 2029 | - 0 - | 2,616,536 | (9,062,468) | (116,165,133) | (116,165,133) | 305,224 | -38,059.0% |
| 2030 | - 0 - | 307,306 | (9,897,898) | (126,370,338) | (126,370,338) | - 0 - | |

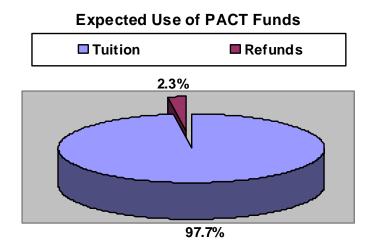
<1> Payments out of Fund include the reversal of liability for "Unsettled Purchases of Securities" as well as other accruals.

VII. EXPECTED USE OF FUNDS

The Fund, which is comprised of contributions, fees and all investment earnings, is expected to pay benefits in the following proportions:

- Tuition payments 97.7%
- Payments of refunds to contract owners 2.3%

These results are shown graphically below.



VIII. SENSITIVITY TESTING

We believe that when there is a significant amount of uncertainty about conditions prevailing in the future it is important to test the status of the Fund under other possible assumptions. In particular, we note that our assumptions are not certain due to the volatility of historic results and anticipated future results. Our assumptions were selected to represent our best judgment regarding the future, combined with some conservatism.

The tests given below are not intended to be representative of likely differences between actual events and assumptions; rather they are intended to demonstrate the extent of changes in the Fund's status for a given difference between actual and projected events.

We investigated the effect of variances in inflation, variances in investment yield, variance in bias toward higher-cost institutions and variance in expenses from those anticipated by the reported assumptions. For these projections, we assumed no future contract sales. These scenarios are described below.

- 1) Tuition inflation lower than baseline assumptions by 0.25% every year.
- 2) Tuition inflation higher than baseline assumptions by 0.25% every year.
- 3) Investment yields higher than baseline assumptions by 0.25% every year.
- 4) Investment yields lower than baseline assumptions by 0.25% every year.
- 5) Tuition inflation higher and investment yields lower than baseline assumptions by 0.25% every year.
- 6) Explicit provision for variable expenses combined with gross revenue rather than net revenue.
- 7) Investment return of 8.50% for all years.
- 8) No contract cancellations.

The deficit for each of these scenarios is shown below.

| Sensitivity Testing Results | | | | | | | | |
|-----------------------------|-------------------|----------------------|--|--|--|--|--|--|
| <u>Scenario</u> | Actuarial Deficit | Change From Reported | | | | | | |
| 1 | (8,053,580) | \$11,688,100 | | | | | | |
| 2 | (31,671,278) | (\$11,929,598) | | | | | | |
| 3 | (7,793,366) | \$11,948,314 | | | | | | |
| 4 | (31,996,211) | (\$12,254,531) | | | | | | |
| 5 | (44,207,718) | (\$24,466,038) | | | | | | |
| 6 | (21,966,367) | (\$2,224,687) | | | | | | |
| 7 | (7,750,544) | \$11,991,136 | | | | | | |
| 8 | (36,580,045) | (\$16,838,365) | | | | | | |

IX. BREAK-EVEN RATES

Another way to characterize the existing deficit is to quantify the rate of investment income or the rate of tuition inflation that would produce break-even (that is, zero-deficit, zero-surplus). The investment break-even rate assumes that inflation remains at 7.25% in all years, while the tuition inflation break-even rate assumes that investment returns will be 8.07% for five years, then 8.50% thereafter.

Investment return break-even rate: 8.66%

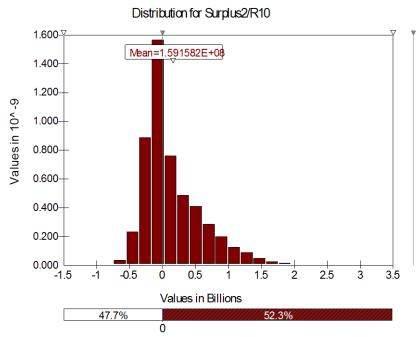
Tuition inflation break-even rate: 6.82%

X. STOCHASTIC ANALYSIS

We have retained the same model for stochastic projections as we used last year. We have updated the beginning values to reflect 2007 actual results, but otherwise have left the same structure and parameters in place.

As in prior years, we ran 10,000 scenarios with varying tuition inflation and investment returns. The results are summarized in the table below and in the chart immediately following.

| Proportion with positive Actuarial Reserve | 52.3% |
|--|-----------------|
| 25% of results are better than: | 382,462,016 |
| 50% of results are better than: | 15,770,877 |
| 75% of results are better than: | (138,290,352) |
| Largest Actuarial Reserve | 3,115,273,216 |
| Smallest Actuarial Reserve | (1,119,784,192) |
| Mean Actuarial Reserve | 159,158,205 |



The most important measures from the table immediately above are the Proportion with positive Actuarial Reserve and the 50% Results. The Proportion with positive Actuarial Reserve probability of 52.3% indicates that there is slightly better than a break-even likelihood that the Program will have a surplus.

The 50% Results measure is a "best-estimate" measure of results. If our assumptions are neither conservative (that is they understate results) nor aggressive (that is they

overstate results) then the 50% Results measure should be close to our projected result of \$19,258,141. The table above indicates that our assumptions are conservative.

The Smallest Actuarial Reserve indicates what happens if economic events continue adversely for the lifetime of the current contracts –high tuition increases, coupled with negative returns in the equity market until the end of the projection horizon. On the other hand, the Largest Actuarial Reserve indicates what happens if economic conditions are favorable for the remaining lifetime of the current contracts.

Appendix A - Development of Weighted Average Tuition for Four-Year Schools

Weighted Average Tuition 4-Year Schools - Tuition & Fees

| | | Annual Tuition & Required Fees @ 15 Hours per Semester | | | | | | | |
|-------------------------------------|----------------|--|---------|----------|---------|----------|---------|----------|---------|
| | 2003-04 | Increase | 2004-05 | Increase | 2005-06 | Increase | 2006-07 | Increase | 2007-08 |
| Alabama A&M University | \$4,060 | -0.2% | \$4,050 | 0.0% | \$4,050 | 0.0% | \$4,050 | 11.9% | \$4,530 |
| Alabama State University | 3,600 | 11.3% | 4,008 | 0.0% | 4,008 | 0.0% | 4,008 | 12.5% | 4,508 |
| Athens State University | 3 , 570 | 8.4% | 3,870 | 0.0% | 3,870 | 0.0% | 3,870 | 4.7% | 4,050 |
| Auburn University | 4,666 | 8.6% | 5,068 | 4.1% | 5,278 | 4.1% | 5,496 | 6.1% | 5,836 |
| Auburn University at Montgomery | 4,130 | 7.5% | 4,440 | 4.1% | 4,620 | 2.6% | 4,740 | 5.3% | 4,990 |
| Jacksonville State University | 3,550 | 13.8% | 4,040 | 0.0% | 4,040 | 25.5% | 5,070 | 0.0% | 5,070 |
| Troy State University<1> | 3,842 | 2.7% | 3,946 | 4.0% | 4,104 | 0.0% | 4,104 | 3.9% | 4,264 |
| Troy State University Dothan<1> | 3,842 | 8.3% | 4,162 | 3.8% | 4,320 | | | | |
| Troy State University Montgomery<1> | 3,600 | 8.9% | 3,920 | 4.7% | 4,104 | | | | |
| University of Alabama | 4,134 | 12.0% | 4,630 | 5.1% | 4,864 | 8.5% | 5,278 | 8.0% | 5,700 |
| University of AL at Birmingham | 4,274 | -1.6% | 4,204 | 2.9% | 4,324 | 0.0% | 4,324 | 7.7% | 4,658 |
| University of AL at Huntsville | 4,126 | 9.5% | 4,516 | 3.8% | 4,688 | 3.4% | 4,848 | 7.6% | 5,216 |
| University of Montevallo | 4,784 | 12.8% | 5,394 | 3.5% | 5,584 | 0.0% | 5,584 | 7.4% | 6,000 |
| University of North Alabama | 3,668 | 3.5% | 3,798 | 7.1% | 4,068 | 6.6% | 4,338 | 9.3% | 4,740 |
| University of South Alabama | 3,770 | 7.7% | 4,060 | 3.2% | 4,190 | 0.0% | 4,190 | 7.4% | 4,500 |
| University of West Alabama | 3,728 | 3.2% | 3,846 | 2.9% | 3,958 | 0.0% | 3,958 | 6.8% | 4,228 |
| | | | | | | | | | |
| Totals: | \$4,071 | 7.3% | \$4,369 | 3.3% | \$4,514 | 4.2% | \$4,703 | 6.6% | \$5,015 |

<1> Troy State Dothan and Troy State Montgomery were merged with Troy State University in June 2005.

Weighted Average Tuition 4-Year Schools - Headcount

| | Resident | t Enrollment He | Average | Percent | |
|-------------------------------------|----------|-----------------|----------|----------|----------|
| | Fall '04 | Fall '05 | Fall '06 | 043 - 06 | Of Total |
| Alabama A&M University | 4,177 | 3,996 | 3,908 | 4,027 | 3.7% |
| Alabama State University | 4,149 | 4,029 | 3,935 | 4,038 | 3.7% |
| Athens State University | 2,461 | 2,488 | 2,640 | 2,530 | 2.3% |
| Auburn University | 15,322 | 15,435 | 15,514 | 15,424 | 14.3% |
| Auburn University at Montgomery | 4,903 | 4,909 | 4,904 | 4,905 | 4.6% |
| Jacksonville State University | 7,660 | 7,600 | 7,474 | 7,578 | 7.0% |
| Troy State University<1> | 11,092 | 11,153 | 12,344 | 11,530 | 10.7% |
| Troy State University Dothan<1> | 0 | 0 | 0 | 0 | 0.0% |
| Troy State University Montgomery<1> | 0 | 0 | 0 | 0 | 0.0% |
| University of Alabama | 16,270 | 16,943 | 18,176 | 17,130 | 15.9% |
| University of AL at Birmingham | 14,600 | 14,528 | 14,288 | 14,472 | 13.4% |
| University of AL at Huntsville | 5,661 | 5,952 | 6,033 | 5,882 | 5.5% |
| University of Montevallo | 2,947 | 2,883 | 2,766 | 2,865 | 2.7% |
| University of North Alabama | 4,440 | 4,692 | 4,848 | 4,660 | 4.3% |
| University of South Alabama | 10,936 | 10,450 | 10,178 | 10,521 | 9.8% |
| University of West Alabama | 1,858 | 2,105 | 2,443 | 2,135 | 2.0% |
| Totals: | 106,476 | 107,163 | 109,451 | 107,697 | 100.0% |

<1> Troy State Dothan and Troy State Montgomery were merged with Troy State University in June 2005. Headcounts for 2003 and 2004for both merged campuses have been added to those of Troy State University.

Appendix B - Payments by School for Academic Year 2006/07

Alabama Public Four-Year Universities

| | Number of | Semester | % of Total | Fees | Tuition | Total of Tuition and | | nge Paid ester Hour |
|-------------------------------|-------------|----------|------------|------------|---------------|-------------------------|--------|------------------------|
| School | Enrollments | Hours | Hours | Paid | | | Actual | Projected |
| | | | | | | | | |
| Alabama A&M University | 106 | 1,374 | 0.66% | 6,600.00 | 178,620.00 | 185,220.00 | 134.80 | 156.77 |
| Alabama State University | 101 | 1,243 | 0.60% | - 0 - | 171,676.00 | 171,676.00 | 138.11 | 156.77 |
| Athens State University | 113 | 1,128 | 0.54% | 12,276.00 | 125,208.00 | 137,484.00 | 121.88 | 156.77 |
| Auburn University | 5,277 | 65,521 | 31.47% | - 0 - | 13,825,023.93 | 13,825,023.93 | 211.00 | 156.77 |
| Auburn at Montgomery | 655 | 6,668 | 3.20% | 15,180.00 | 1,039,487.85 | 1,054,667.85 | 158.17 | 156.77 |
| Jacksonville State University | 674 | 6,958 | 3.34% | - 0 - | 1,168,318.00 | 1,168,318.00 | 167.91 | 156.77 |
| Troy State University | 869 | 9,347 | 4.49% | 35,674.30 | 1,420,375.88 | 1,456,050.18 | 155.78 | 156.77 |
| Troy State - Montgomery | 85 | 737 | 0.35% | 3,100.00 | 121,846.00 | 124,946.00 | 169.53 | 156.77 |
| University of Alabama | 5,327 | 65,726 | 31.57% | - 0 - | 13,077,076.95 | 13,077,076.95 | 198.96 | 156.77 |
| University of Al Birmingham | 1,527 | 17,745 | 8.52% | 189,184.31 | 2,364,293.31 | 2,553,477.62 | 143.90 | 156.77 |
| University of Al - Huntsville | 629 | 6,883 | 3.31% | - 0 - | 1,169,564.00 | 1,169,564.00 | 169.92 | 156.77 |
| University of Montevallo | 615 | 6,392 | 3.07% | 22,335.50 | 1,162,553.61 | 1,184,889.11 | 185.38 | 156.77 |
| University of North Alabama | 512 | 6,159 | 2.96% | 97,432.00 | 817,826.00 | 915,258.00 | 148.60 | 156.77 |
| University of South Alabama | 943 | 10,950 | 5.26% | 124,533.97 | 1,402,721.00 | 1,527,254.97 | 139.48 | 156.77 |
| University of West Alabama | 111 | 1,367 | 0.66% | 5,220.00 | 193,248.00 | 198,468.00 | 145.19 | 156.77 |
| | | | | - 0 - | | | | |
| Grand Total | 17,544 | 208,197 | 100.00% | 511,536.08 | 38,237,838.53 | 38,749,374.61 | 186.12 | 156.77 |
| Ratio of Actual to Projected | | | | | | | | 118.72% |

Alabama Public Two-Year Colleges

| | Number of | Semester | % of Total | Fees | Tuition | Total of Tuition and | Average Paid Per Semester Hour | |
|------------------------------|-------------|----------|------------|------------|--------------|-------------------------|-----------------------------------|-----------|
| Cahaal | | | | | | | | |
| School | Enrollments | Hours | Hours | Paid | Paid | Fees Paid | Actual | Projected |
| | | | | | | | | |
| Alabama Southern | 43 | 496 | 1.10% | 8,721.00 | 35,501.00 | 44,222.00 | 89.16 | 92.17 |
| Bevill State | 173 | 1,683 | 3.74% | 27,093.00 | 122,796.00 | 149,889.00 | 89.06 | 92.17 |
| Bishop State | 59 | 533 | 1.18% | 7,828.00 | 39,116.00 | 46,944.00 | 88.08 | 92.17 |
| Calhoun State | 668 | 5,920 | 13.15% | 118,824.00 | 433,304.00 | 552,128.00 | 93.26 | 92.17 |
| Central Alabama | 76 | 814 | 1.81% | 14,573.00 | 58,212.00 | 72,785.00 | 89.42 | 92.17 |
| Chattahoochee Valley State | 44 | 319 | 0.71% | 5,148.85 | 22,839.00 | 27,987.85 | 87.74 | 92.17 |
| Enterprise-Ozark | 109 | 1,183 | 2.63% | 20,239.89 | 85,494.00 | 105,733.89 | 89.38 | 92.17 |
| Faulkner State | 229 | 2,347 | 5.21% | 42,900.00 | 172,599.00 | 215,499.00 | 91.82 | 92.17 |
| Gadsden State | 263 | 2,640 | 5.86% | 45,220.00 | 187,440.00 | 232,660.00 | 88.13 | 92.17 |
| Jefferson Davis | 25 | 306 | 0.68% | 5,586.00 | 21,954.00 | 27,540.00 | 90.00 | 92.17 |
| Jefferson State | 935 | 8,170 | 18.15% | 208,759.94 | 597,132.00 | 805,891.94 | 98.64 | 92.17 |
| Lawson State - Birmingham | 84 | 858 | 1.91% | 13,302.00 | 62,370.00 | 75,672.00 | 88.20 | 92.17 |
| Lurleen B. Wallace | 57 | 555 | 1.23% | 8,569.00 | 40,146.00 | 48,715.00 | 87.77 | 92.17 |
| Marion Military Institute | 13 | 205 | 0.46% | 4,199.00 | 39,000.00 | 43,199.00 | 210.73 | 92.17 |
| Northeast Alabama | 57 | 576 | 1.28% | 9,960.00 | 41,713.00 | 51,673.00 | 89.71 | 92.17 |
| Northwest Shoals | 92 | 877 | 1.95% | 18,650.00 | 63,236.00 | 81,886.00 | 93.37 | 92.17 |
| Shelton State | 577 | 5,256 | 11.67% | 85,253.42 | 382,698.00 | 467,951.42 | 89.03 | 92.17 |
| Snead State | 142 | 1,438 | 3.19% | 18,876.00 | 110,642.00 | 129,518.00 | 90.07 | 92.17 |
| Southern Union State | 548 | 6,223 | 13.82% | 104,595.00 | 449,205.00 | 553,800.00 | 88.99 | 92.17 |
| Wallace State - Dothan | 121 | 1,212 | 2.69% | 18,715.00 | 88,408.00 | 107,123.00 | 88.39 | 92.17 |
| Wallace State - Hanceville | 274 | 2,722 | 6.05% | 38,475.00 | 199,551.00 | 238,026.00 | 87.45 | 92.17 |
| Wallace State – Selma | 106 | 692 | 1.54% | 12,198.00 | 49,132.00 | 61,330.00 | 88.63 | 92.17 |
| Grand Total | 4695 | 45,025 | 100.00% | 837,686.10 | 3,302,488.00 | 4,140,174.10 | 91.95 | 92.17 |
| Ratio of Actual to Projected | | | | | | | | 99.76% |

Alabama Public Technical Colleges

| | Semester | % of Total | Fees | Tuition | Tuition and | Average Paid Per Semester Hour | |
|-----------|---------------|--------------------------|---|--|---|--|--|
| rollments | Hours | Hours | Paid | Paid | Fees Paid | Actual | Projected |
| | | | | | | | |
| 19 | 216 | 30.99% | 3,115.70 | 15,564.00 | 18,679.70 | 86.48 | 92.17 |
| 6 | 73 | 10.47% | 1,045.00 | 5,183.00 | 6,228.00 | 85.32 | 92.17 |
| 43 | 408 | 58.54% | 5,742.00 | 29,671.00 | 35,413.00 | 86.80 | 92.17 |
| 68 | 697 | 100.00% | 9,902.70 | 50,418.00 | 60,320.70 | 86.54 | 92.17 93.89% |
| | 19 6 43 | 19 216 6 73 43 408 | 19 216 30.99% 6 73 10.47% 43 408 58.54% | 19 216 30.99% 3,115.70 6 73 10.47% 1,045.00 43 408 58.54% 5,742.00 | 19 216 30.99% 3,115.70 15,564.00 6 73 10.47% 1,045.00 5,183.00 43 408 58.54% 5,742.00 29,671.00 | 19 216 30.99% 3,115.70 15,564.00 18,679.70 6 73 10.47% 1,045.00 5,183.00 6,228.00 43 408 58.54% 5,742.00 29,671.00 35,413.00 | 19 216 30.99% 3,115.70 15,564.00 18,679.70 86.48 6 73 10.47% 1,045.00 5,183.00 6,228.00 85.32 43 408 58.54% 5,742.00 29,671.00 35,413.00 86.80 |

Summary - All Categories

| | | | % of | | | Total of | Average Paid | |
|-----------------------------|-------------|----------|-------|--------------|---------------|---------------|-------------------|-----------|
| | Number of | Semester | Total | Fees | Tuition | Tuition and | Per Semester Hour | |
| School | Enrollments | Hours | Hours | Paid | Paid | Fees Paid | Actual | Projected |
| | | | | | | | | |
| Alabama 4-Year Universities | 17,544 | 208,197 | 66% | 511,536.08 | 38,237,838.53 | 38,749,374.61 | 186.12 | 156.77 |
| Alabama 2-Year Schools | | | | | | | | |
| Community Colleges | 4,695 | 45,025 | 14% | 837,686.10 | 3,302,408.00 | 4,140,094.10 | 91.95 | 92.17 |
| Technical Schools | 68 | 697 | 0% | 9,902.70 | 50,418.00 | 60,320.70 | 86.54 | 92.17 |
| Total 2-Year Schools | 4,763 | 45,722 | 15% | 847,588.80 | 3,352,826.00 | 4,200,414.80 | 91.87 | 92.17 |
| Out of State Schools | | | | | | | | |
| Community Colleges | 213 | 2,261 | 1% | 12,921.13 | 200,309.53 | 213,230.66 | 94.31 | 92.17 |
| Technical Schools | 101 | 1,235 | 0% | 6,180.24 | 171,463.59 | 177,643.83 | 143.84 | 92.17 |
| Public Universities | 2,436 | 31,377 | 10% | 145,783.59 | 4,536,530.98 | 4,682,314.57 | 149.23 | 156.77 |
| Private Colleges | 445 | 5,996 | 2% | 28,264.85 | 872,987.63 | 901,252.48 | 150.31 | 156.77 |
| Total Out of State | 3,195 | 40,869 | 13% | 193,149.81 | 5,781,291.73 | 5,974,441.54 | 146.19 | 151.24 |
| Alabama Private Schools | | | | | | | | |
| Community Colleges | 9 | 52 | 0% | 294.16 | 7,888.87 | 8,183.03 | 157.37 | 92.17 |
| Technical Schools | 76 | 592 | 0% | 2,371.30 | 88,649.02 | 91,020.32 | 153.75 | 92.17 |
| Universities | 46 | 418 | 0% | 2,271.64 | 62,641.68 | 64,913.32 | 155.30 | 156.77 |
| Colleges | 1,376 | 18,725 | 6% | 84,840.15 | 2,785,342.19 | 2,870,182.34 | 153.28 | 156.77 |
| Total Alabama Private | 1,507 | 19,787 | 6% | 89,777.25 | 2,944,521.76 | 3,034,299.01 | 153.35 | 154.67 |
| Total 4-Year | 21,847 | 264,713 | 84% | 772,696.31 | 46,495,341.01 | 47,268,037.32 | 178.56 | 156.77 |
| Total 2-Year | 5,162 | 49,862 | 16% | 869,355.63 | 3,821,137.01 | 4,512,949.81 | 90.51 | 92.17 |
| Grand Total | 27,009 | 314,575 | 100% | 1,642,051.94 | 50,316,478.02 | 51,780,987.13 | 164.61 | 146.53 |

Resume of Robert B. Crompton, FSA, MAAA

Bob is a vice-president and consulting actuary in Atlanta office of Actuarial Resources. He coordinates all the services provided to the Board with respect to PACT.

Bob is a leading consultant in the prepaid tuition area. In addition to working with the PACT program, he also currently provides actuarial analysis for over 30% of the prepaid tuition programs in the United States, including:

- Colorado,
- Kentucky,
- Pennsylvania,
- South Carolina and
- West Virginia.

In addition, Bob has also worked with the prepaid tuition programs in Florida, Mississippi and Texas.

Bob's specific assistance to prepaid tuition plans includes the following:

- assisting with plan design;
- assisting with setting appropriate actuarial assumptions;
- developing systems to perform necessary calculations;
- reviewing cash flows for appropriate investment strategy;
- preparing analyses of potential impact of fluctuations in tuition increase, investment income, and change in tax status; and
- presenting results to the program governing bodies.

Bob has published two articles specifically relating to prepaid tuition contracts, "Actuarial Issues for Prepaid Tuition Contracts," which was co-winner of the 1992 Actuarial Education and Research Fund's Practitioners Award and "Financing the Future Generations, An Examination of Prepaid Tuition Plans," published in the American Academy of Actuaries' magazine *Contingencies*.

Bob has over 25 years of actuarial experience. Prior to working at Actuarial Resources, Bob worked at Ernst & Young for 14 years. Bob is a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries. He has a Bachelor of Science degree in Economics from Harding University.